NIRMA UNIVERSITY
INSTITUTE OF TECHNOLOGY
NAAC ACCREDITED 'A' GRADE

2CS404 PSC INNOVATIVE ASSIGNMENT

Group details:

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TITLE :   **Personal voice assistant**
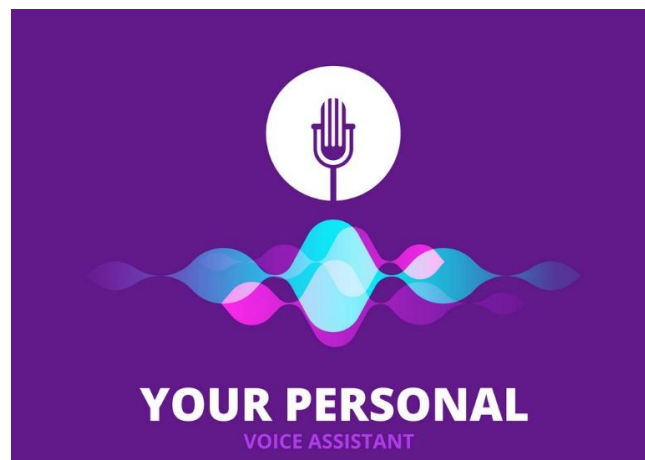
MOTIVATION :

   Artificial Intelligence will be one of the demanding technology in future, It will enables human capabilities – understanding, reasoning, planning, communication and perception – to be undertaken by software increasingly effectively, efficiently and at low cost. Motivation behind the project is to build a real life helpful application based on AI, learning some basic AI through building project.

OBJECTIVES:

Personal voice assistant is one of the real and important application of AI. Like Amazon's ALEXA and Apple's Siri, These assistants can do many things on behalf of human just by giving command, **It enables as to do things handsfree, Allow as to do multitasking. It can be very useful application for specially abled person, these assistants can make their life more easier.**

FEATURES OF PROJECT:

- This personal voice assistant project is made using Speech recognition package from Google API.
- It will solve mathematical expression using WolframAlpha API
- Playsound package will play the saved mp3 file from system.
- Pyaudio is used for voice engine in python.
- It can do many tasks like greeting user according to time
- It can tell jokes using Pyjokes python library
- It can play music, can tell weather, send email, can open any application.
- It can search anything on internet.
- We will also try to add more useful features in this personal digital assistant

WORKFLOW OF PROJECT:

- One assistant related function will provide the output according to processed data , it will save every .mp3 file uniquely.
- Then a function is made for listening the query from user
- Another function is for selecting the task , which contains if-else ladder enclosed by try and except block
- Also for opening any application there is a function called open_app which will open any application